

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 July 2003 (03.07.2003)

PCT

(10) International Publication Number
WO 03/055132 A1

(51) International Patent Classification: H04L 9/08

(21) International Application Number: PCT/JP02/12738

(22) International Filing Date: 5 December 2002 (05.12.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2001-389452 21 December 2001 (21.12.2001) JP

(71) Applicant: SONY COMPUTER ENTERTAINMENT
INC. [JP/JP]; 1-1, Akasaka 7 chome, Minato-ku, Tokyo
107-0052 (JP).

(72) Inventors: SHIMADA, Muneki; c/o SONY COM-
PUTER ENTERTAINMENT INC., 1-1, Akasaka 7 chome,

Minato ku, Tokyo 107-0052 (JP). OKADA, Toyashi; c/o
SONY COMPUTER ENTERTAINMENT INC., 1-1,
Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP).
KIMOTO, Yousuke; c/o SONY COMPUTER ENTER-
TAINMENT INC., 1-1, Akasaka 7-chome, Minato ku,
Tokyo 107-0052 (JP). KANEE, Kazuhiko; c/o SONY
COMPUTER ENTERTAINMENT INC., 1-1, Akasaka
7-chome, Minato-ku, Tokyo 107-0052 (JP). KOMAKI,
Kenjiro; c/o SONY COMPUTER ENTERTAINMENT
INC., 1-1, Akasaka 7 chome, Minato-ku, Tokyo 107-0052
(JP).

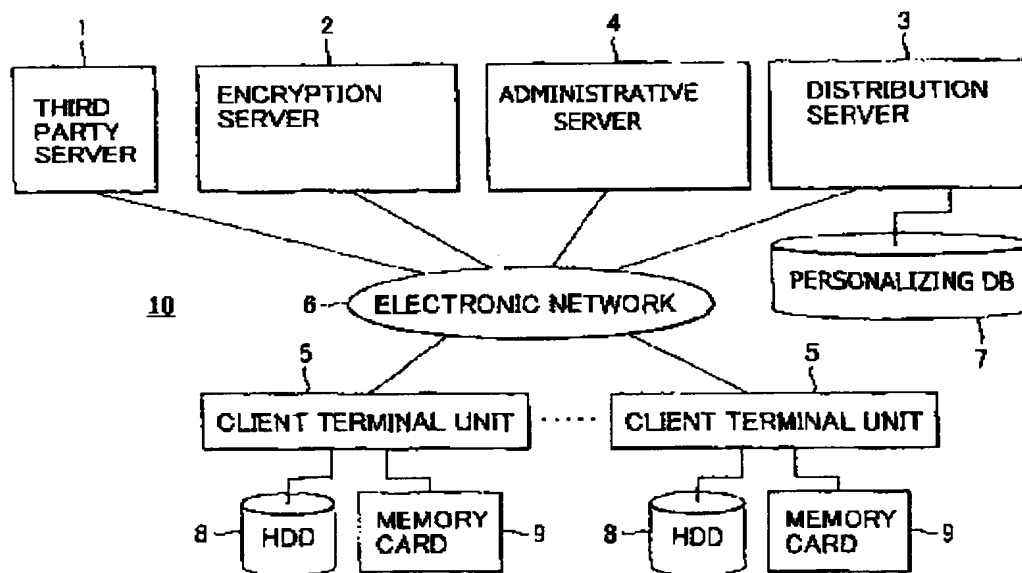
(74) Agent: SUZUKI, Seigoh; Shiba NK Bldg. 4th floor, 22-7,
Shiba 3-chome, Minato-ku, Tokyo 105-0014 (JP).

(81) Designated States (national): AU, CN, JP, KR.

(84) Designated States (regional): European patent (AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GR, GR, IE, IT,
LI, MC, NL, PT, SE, SK, TR).

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR SECURE DISTRIBUTION OF PROGRAM CONTENT



(57) Abstract: Methods and apparatus in accordance with the present invention are operable to carry out certain functions including: receiving an encrypted program at a processing apparatus; transmitting a machine ID over a network to an administrator; receiving registration data over the network from the administrator in response to the machine ID; transmitting the registration data over the network to a distributor; receiving an encrypted decryption key and an encrypted virtual ID at the processing apparatus over the network from the distributor in response to the registration data; decrypting the encrypted decryption key using the virtual ID, and decrypting the encrypted program using the decryption key; re-encrypting the program using the virtual ID; and storing the re-encrypted virtual ID and the re-encrypted program in a first storage device.

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 July 2003 (03.07.2003)

PCT

(10) International Publication Number
WO 03/055132 A1

(51) International Patent Classification: **H04L 9/08**

(21) International Application Number: **PCT/JP02/12738**

(22) International Filing Date: **5 December 2002 (05.12.2002)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
2001-389452 21 December 2001 (21.12.2001) JP

(71) Applicant: **SONY COMPUTER ENTERTAINMENT INC. [JP/JP]; 1-1, Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP).**

(72) Inventors: **SHIMADA, Muneki; c/o SONY COMPUTER ENTERTAINMENT INC., 1-1, Akasaka 7-chome,**

Minato-ku, Tokyo 107-0052 (JP). OKADA, Toshiaki; c/o SONY COMPUTER ENTERTAINMENT INC., 1-1, Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP). KIMOTO, Yousuke; c/o SONY COMPUTER ENTERTAINMENT INC., 1-1, Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP). KANEI, Kazuhiko; c/o SONY COMPUTER ENTERTAINMENT INC., 1-1, Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP). KOMAKI, Kenjiro; c/o SONY COMPUTER ENTERTAINMENT INC., 1-1, Akasaka 7-chome, Minato-ku, Tokyo 107-0052 (JP).

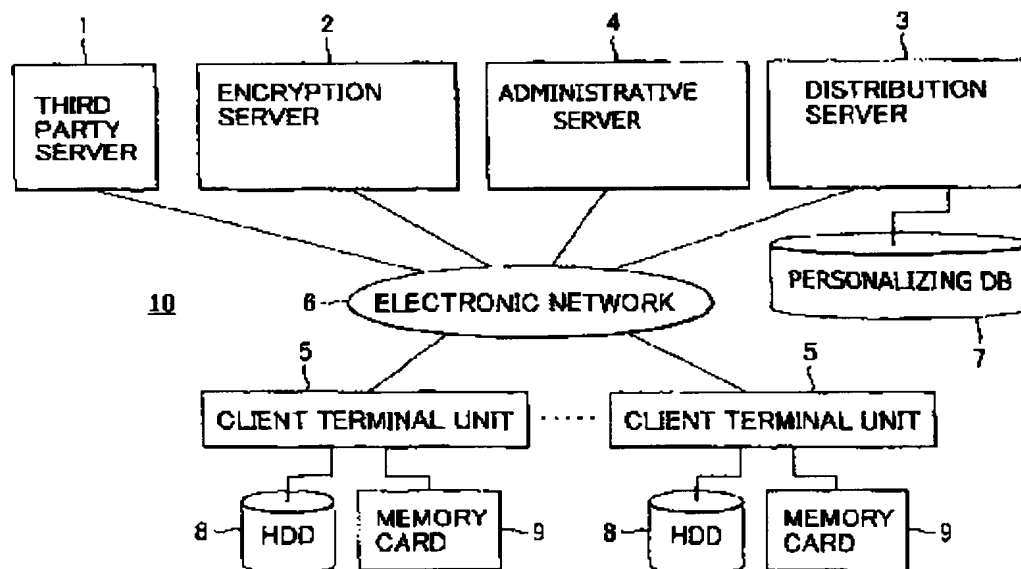
(74) Agent: **SUZUKI, Seigoh; Shiba NK Bldg. 4th floor, 22-7, Shiba 3-chome, Minato-ku, Tokyo 105-0014 (JP).**

(81) Designated States (*national*): **AT, CN, JP, KR.**

(84) Designated States (*regional*): **European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GR, GR, IE, IT, LI, MC, NL, PT, SE, SK, TR).**

[Continued on next page]

(54) Title: **METHODS AND APPARATUS FOR SECURE DISTRIBUTION OF PROGRAM CONTENT**



(57) Abstract: Methods and apparatus in accordance with the present invention are operable to carry out certain functions including: receiving an encrypted program at a processing apparatus; transmitting a machine ID over a network to an administrator; receiving registration data over the network from the administrator in response to the machine ID; transmitting the registration data over the network to a distributor; receiving an encrypted decryption key and an encrypted virtual ID at the processing apparatus over the network from the distributor in response to the registration data; decrypting the encrypted decryption key using the virtual ID; and decrypting the encrypted program using the decryption key; re-encrypting the program using the virtual ID; and storing the encrypted virtual ID and the re-encrypted program in a first storage device.